

# ABSTRACT

Disclosed herein are methods of making a negative pattern of carbon nanotubes or a polymerized carbon nanotube composite having an interpenetrating polymer network(IPN) by modifying the surfaces of the carbon nanotubes with polymerizable functional groups such as oxirane and anhydride groups and subjecting the surface-modified carbon nanotubes either to a photolithography process or to a heatcuring process. By virtue of the present invention, desired patterns of carbon nanotubes can be easily made on the surfaces of various substrates, and polymerized carbon nanotube composites improved in hardening properties can be made without additional polymers.